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APPENDIX A

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Claims 1-21 (Canceled)

- 22. A method of treating, managing or preventing obstructive lung disease comprising administering to a patient a pharmaceutical composition comprising an effective amount of a medicament selected from the group consisting of:
 - (a) heat killed whole cell *Mycobacterium* w,
 - (b) sonicated Mycobacterium w,
 - (c) a solvent extract of *Mycobacterium w*, wherein the solvent is selected from the group consisting of chloroform, ethanol, methanol, and acetone,
 - (d) an enzymatic extraction of Mycobacterium w, wherein the enzyme is liticase, and
 - (e) admixtures thereof.
- 23. The method of claim 22 or 48, wherein the method is for treating, managing or preventing asthma.
 - 24. The method of claim 23, wherein the method is for delaying attacks of asthma.
- 25. The method of claim 23, wherein the method is for reducing the requirement of drugs used to improve lung function during the management of asthma.
- 26. The method of claim 23, wherein the method is for improving lung function in the presence or absence of other drugs.
 - 27. The method of claim 23, wherein the asthma is bronchial asthma.
- 28. The method of claim 22, wherein the pharmaceutical composition comprises an admixture of heat killed whole cell *Mycobacterium w* and sonicated *Mycobacterium w*.

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- 29. The method of claim 22, wherein the pharmaceutical composition comprises sonicated *Mycobacterium w*.
 - 30. (Canceled)
 - 31. (Canceled)
- 32. The method of claim 22, wherein the pharmaceutical composition comprises a solvent extract of *Mycobacterium w* wherein the solvent is selected from the group consisting of chloroform, ethanol, methanol and acetone.
 - 33-35. (Canceled)
- 36. The method of claim 22 or 48, wherein the pharmaceutical composition further comprises an adjuvant.
- 37. The method of claim 36, wherein the adjuvant is selected from the group consisting of mineral oil, mineral oil and surfactant, Ribi adjuvant, Titer-max, syntax adjuvant formulation, aluminum salt adjuvant, nitrocellulose adsorbed antigen, immune stimulating complexes, Gebru adjuvant, super carrier, elvax 40w, L-tyrosine, monatanide (manide-oleate compound), Adju prime, Squalene, Sodium phthalyl lipopoly saccharide, calcium phosphate, saponin, melonoma antigen and muramyl dipeptide (MDP).
- 38. The method of claim 22 or 48, wherein the pharmaceutical composition further comprises a surfactant.
- 39. The method of claim 38, wherein the surfactant is polyoxyethylene sorbitan monooleate (Tween 80) or Titon X100.
- 40. The method of claim 38, wherein the surfactant is present in the pharmaceutical composition in a concentration of up to 0.4%.
- 41. The method of claim 38, wherein the surfactant is present in the pharmaceutical composition in a concentration of up to 0.1%.

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- 42. The method of claim 22 or 48, wherein the pharmaceutical composition further comprises a preservative.
- 43. The method of claim 42, wherein the preservative is Thiomerosal and is present in a concentration of 0.01% w/v.
 - 44. (Canceled)
- 45. The method of claim 22, wherein the pharmaceutical composition is in a unit dosage form comprising at least 10^5 Mycobacterium w as:
 - (a) 10⁵ heat killed whole cell Mycobacterium w
 - (b) 10⁵ sonicated Mycobacterium w,
 - (c) a solvent extract of 10^5 Mycobacterium w wherein the solvent is selected from chloroform, ethanol, methanol and acetone, or
 - (d) an enzymatic extraction of 10^5 Mycobacterium w wherein the enzyme is liticase.
 - 46. The method of claim 22, wherein the pharmaceutical composition is in a unit dosage form comprising at least 10^7 Mycobacterium w as:
 - (a) 10⁷ heat killed whole cell *Mycobacterium* w,
 - (b) 10⁷ sonicated Mycobacterium w,
 - (c) a solvent extract of 10^7 Mycobacterium w, wherein the solvent is selected from the group consisting of chloroform, ethanol, methanol, and acetone, or
 - (d) an enzymatic extraction of 10^7 Mycobacterium w wherein the enzyme is liticase.
- 47. The method of claim 22, wherein the pharmaceutical composition is in a unit dosage form comprising between 10^8 and 10^9 Mycobacterium w as:
 - (a) between 10⁸ and 10⁹ heat killed whole *Mycobacterium w*,

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- (b) between 10⁸ and 10⁹ sonicated Mycobacterium w,
- (c) a solvent extract of between 10^8 and 10^9 Mycobacterium w wherein the solvent is selected from the group consisting of chloroform, ethanol, methanol and, acetone, or
- (d) an enzymatic extraction of between 10^8 and 10^9 Mycobacterium w wherein the enzyme is liticase.
- 48. A method of treating, managing or preventing obstructive lung disease comprising administering to a patient a pharmaceutical composition comprising an effective amount of heat killed whole cell *Mycobacterium w*.

49-54. (Canceled)